


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☒ The ACM Digital Library ☐ The Guide

THE ACM DIGITAL LIBRARY


[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

 Terms used **instantaneous phase complex**

Found 817 of 169,166

Sort results by


[Save results to a Binder](#)
[Try an Advanced Search](#)
[Try this search in The ACM Guide](#)

Display results


[Search Tips](#)
☐ Open results in a new window

Results 1 - 20 of 200

 Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

 Relevance scale ☐ ☐ ☐ ☐ ☐

1 [Nonsequentiality and Concrete Activity Phases in Discrete-Event Simulation](#)


[Languages](#)

J. A. Barnden

 July 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 3 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(1.59 MB\)](#)

 Additional Information: [full citation](#), [references](#), [index terms](#)

2 [Mos LSI computer aided design system](#)



D. R. Lewallen

 January 1969 **Proceedings of the 6th annual conference on Design Automation**

Publisher: ACM Press

 Full text available: [pdf\(1.03 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A design system employing computer aided design techniques, a Gerber digital photographic plotter, and an automatic LSI tester has been developed and used in logic design, layout design, mask generation, and testing, of complex MOS Large Scale Integrated circuit arrays. The system employs computer logic simulation for debugging machine logic and generating test tapes, and utilizes abbreviated input data techniques for generating array layout designs and photographic artwork masters. In this ...

3 [The computation of optical flow](#)



S. S. Beauchemin, J. L. Barron

 September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(3.06 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Two-dimensional image motion is the projection of the three-dimensional motion of objects, relative to a visual sensor, onto its image plane. Sequences of time-ordered images allow the estimation of projected two-dimensional image motion as either instantaneous image velocities or discrete image displacements. These are usually called the optical flow field or the image velocity field. Provided that optical flow is a reliable approximation to two-dimensional ...

4 Listening to FM radio in software, step by step

Eric Blossom

September 2004 **Linux Journal**, Volume 2004 Issue 125

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(18.64 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Software radio is a really big important technology. Don't take our word for it—try this simple project.


5 An Approach to Program Behavior Modeling and Optimal Memory Control



Percy Tzelnic, Izidor Gertner

April 1982 **Journal of the ACM (JACM)**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)


6 Trace-based mobile network emulation



Brian D. Noble, M. Satyanarayanan, Giau T. Nguyen, Randy H. Katz

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Subjecting a mobile computing system to wireless network conditions that are realistic yet reproducible is a challenging problem. In this paper, we describe a technique called *trace modulation* that re-creates the observed end-to-end characteristics of a real wireless network in a controlled and repeatable manner. Trace modulation is transparent to applications and accounts for all network traffic sent or received by the system under test. We present results that show that it is indeed cap ...

7 Social networks in the virtual science laboratory



George Chin, James Myers, David Hoyt

August 2002 **Communications of the ACM**, Volume 45 Issue 8

Publisher: ACM Press

Full text available:  [pdf\(281.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [html\(27.16 KB\)](#)

Communicating scientists' behavior, as well as their ideas, computer-supported cooperative work technology fosters virtual social networks of far-flung collaborators pursuing mutual interests and experiments.

8 Simulation: the correct approach to complex availability problem]



Gene J. Schroeder, Marvin M. Johnson

December 1988 **Proceedings of the 20th conference on Winter simulation**

Publisher: ACM Press

Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, system owners and operators have increasingly emphasized the actual amount of time equipment is capable of performing its intended function. For military systems, added complexity, longer service life requirements, reduced periodic maintenance, and less frequent checkouts have increased system availability requirements. However, these factors compound the difficulty in estimating the system's true availability. With dormant

or semi-dormant systems, the amount ...

9 Using APL to build science tutors for the high school level



Manuel Alfonseca

July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language APL '98**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(681.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the procedure used to build several courses on the sciences for the high school level. An APL2 program has been written that accepts problem models, including explanation models, and uses them to generate many different problems. Each course is provided with about one hundred problem models, from which the student is invited to solve many thousands of different actual problems. The unique features of APL2 have made it very simple to develop the program that supports the cour ...

10 Multi-time simulation of voltage-controlled oscillators



Onuttom Narayan, Jaijeet Roychowdhury

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**

Publisher: ACM Press

Full text available: pdf(1.71 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 System development methodology using LOGOS



David B. Allen, Mark R. Dempsey, Leslie H. Goldsmith

January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition APL '87**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of applications written in APL has traditionally both benefited by and suffered from the freedom offered by the environment. A consequence of this freedom is that few applications are designed from the perspectives of consistency, modularity, and structure. This paper describes how LOGOS, a programming environment for APL, helps improve the development and maintenance of APL applications. Through the use of basic support facilities and integrated tools, LOGOS encourages a mo ...

12 Evaluation of an adaptive traffic control technique with underlying system changes



Richard H. Smith, Daniel C. Chin

December 1995 **Proceedings of the 27th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(701.30 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

13 Versatile and efficient techniques for simulating cloth and other deformable objects



Pascal Volino, Martin Courchesne, Nadia Magnenat Thalmann

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available: pdf(225.32 KB) ps(83.90 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: animation, collision detection, collision response, deformable surfaces, mechanical simulation

14 Support for specifying temporal behavior in Ada designs



R. J. A. Buhr, G. M. Karam, R. Casselman

April 1991 **ACM SIGAda Ada Letters , Proceedings of the first international symposium on Environments and tools for Ada SETA1**, Volume XI Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

MachineCharts is a visual design notation that has both structural and temporal semantics. An *Abstract Controller Machine* (ACM) is an element of the notation that encapsulates the temporal behavior defined by a requirements entity and expresses it through an *event/action* interface. This interface is used by the design components to implement the communications semantics between entities that were present in the requirements model. To support the ACM concept as part of design ...

15 Image-based spatio-temporal modeling and view interpolation of dynamic events



Sundar Vedula, Simon Baker, Takeo Kanade

April 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: [pdf\(22.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach for modeling and rendering a dynamic, real-world event from an arbitrary viewpoint, and at any time, using images captured from multiple video cameras. The event is modeled as a nonrigidly varying dynamic scene, captured by many images from different viewpoints, at discrete times. First, the spatio-temporal geometric properties (shape and instantaneous motion) are computed. The view synthesis problem is then solved using a reverse mapping algorithm, ray-casting across spac ...

Keywords: Image-based modeling and rendering, dynamic scenes, non-rigid motion, scene flow, space carving, spatio-temporal view interpolation, voxel models

16 Natural phenomena: Visual simulation of ice crystal growth



Theodore Kim, Ming C. Lin

July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '03**

Publisher: Eurographics Association

Full text available: [pdf\(8.85 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The beautiful, branching structure of ice is one of the most striking visual phenomena of the winter landscape. Yet there is little study about modeling this effect in computer graphics. In this paper, we present a novel approach for visual simulation of ice growth. We use a numerical simulation technique from computational physics, the "phase field method," and modify it to allow aesthetic manipulation of ice crystal growth. We present acceleration techniques to achieve interactive simulation p ...

17 Noise Analysis for Optical Fiber Communication Systems



Alper Demir

November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society

Full text available: [pdf\(311.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The optical fiber transmission links form the backbone of the communications infrastructure. Almost all of voice and data (internet) traffic is routed through terrestrial and submarine optical fiber links, connecting the world together. Invention of the optical amplifiers (OAs) and wavelength-division multiplexing (WDM) technology enabled very high capacity optical fiber communication links that run for thousands of kilometers without any electronic repeaters, but at the same time brought many design ...

18 A distribution-free random number generator via a matrix-exponential representation



Edward F. Brown

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

Publisher: ACM Press

Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

19 Synchronization: Firefly-inspired sensor network synchronicity with realistic radio effects



Geoffrey Werner-Allen, Geetika Tewari, Ankit Patel, Matt Welsh, Radhika Nagpal

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available: [pdf\(564.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Synchronicity is a useful abstraction in many sensor network applications. Communication scheduling, coordinated duty cycling, and time synchronization can make use of a synchronicity primitive that achieves a tight alignment of individual nodes' firing phases. In this paper we present the *Reachback Firefly Algorithm (RFA)*, a decentralized synchronicity algorithm implemented on TinyOS-based motes. Our algorithm is based on a mathematical model that describes how fireflies and neurons spon ...

Keywords: biologically inspired algorithms, pulse-coupled oscillators, synchronization, wireless sensor networks

20 Parallel program performance prediction using deterministic task graph analysis



Vikram S. Adve, Mary K. Vernon

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: [pdf\(576.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In this article, we consider analytical techniques for predicting detailed performance characteristics of a single shared memory parallel program for a particular input. Analytical models for parallel programs have been successful at providing simple qualitative insights and bounds on program scalability, but have been less successful in practice for providing detailed insights and metrics for program performance (leaving these to measurement or simulation). We develop a conceptually simple mode ...

Keywords: Analytical model, deterministic model, parallel program performance prediction, queueing network, shared memory, task graph, task scheduling

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)



Welcome United States Patent and Trademark Office

[Search Results](#)
[BROWSE](#)
[SEARCH](#)
[IEEE XPLORE GUIDE](#)

Results for "((instantaneous <in>metadata) <and> (phase <in>metadata))<and> (comp..."
 Your search matched **86** of **1293212** documents.
 A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

e-mail

» Search Options

[View Session History](#)
[New Search](#)

Modify Search

☐ Check to search only within this results set

 Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

Select Article Information

View: 1-25 | 26-

- | | |
|--------------------------|--|
| <input type="checkbox"/> | 1. The instantaneous complex power applied to three-phase machines
Milanez, D.L.; Miskulim, M.S.;
Industry Applications Society Annual Meeting, 1993., Conference Record of the
2-8 Oct. 1993 Page(s):171 - 176 vol.1
Digital Object Identifier 10.1109/IAS.1993.298920
AbstractPlus Full Text: PDF (264 KB) IEEE CNF |
| <input type="checkbox"/> | 2. Use of an analytic signal to model interaction between an acoustic wave : target with a time-dependent velocity
Gimenez, G.; Cachard, C.; Vray, D.;
Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on
Volume 37, Issue 3, May 1990 Page(s):196 - 204
Digital Object Identifier 10.1109/58.55309
AbstractPlus Full Text: PDF (548 KB) IEEE JNL |
| <input type="checkbox"/> | 3. Multidimensional complex signals with single-orthant spectra
Hahn, S.L.;
Proceedings of the IEEE
Volume 80, Issue 8, Aug. 1992 Page(s):1287 - 1300
Digital Object Identifier 10.1109/5.158601
AbstractPlus Full Text: PDF (820 KB) IEEE JNL |
| <input type="checkbox"/> | 4. Instantaneous power components definition for three-phase circuits base dimension complex number
Hongfa Ding; Xianzhong Duan; Qingchun Zhu;
Transmission and Distribution Conference and Exposition, 2003 IEEE PES
Volume 1, 7-12 Sept. 2003 Page(s):132 - 137 Vol.1
Digital Object Identifier 10.1109/TDC.2003.1335170
AbstractPlus Full Text: PDF (611 KB) IEEE CNF |
| <input type="checkbox"/> | 5. Power analysis applying the instantaneous complex power analytical exp RL symmetrical three-phase system
Milanez, D.L.;
Circuits and Systems, 1997. Proceedings of the 40th Midwest Symposium on
Volume 1, 3-6 Aug. 1997 Page(s):131 - 134 vol.1
Digital Object Identifier 10.1109/MWSCAS.1997.666050
AbstractPlus Full Text: PDF (284 KB) IEEE CNF |

- ☐ **6. Structured autoregressive instantaneous phase and frequency estimation**
Angeby, J.;
Acoustics, Speech, and Signal Processing, 1995. ICASSP-95., 1995 Internatio
on
Volume 3, 9-12 May 1995 Page(s):1768 - 1771 vol.3
Digital Object Identifier 10.1109/ICASSP.1995.480041
[AbstractPlus](#) | Full Text: [PDF](#)(356 KB) IEEE CNF

- ☐ **7. Composite stochastic model for EMI-identification**
Roy, D.P.;
Electromagnetic Interference and Compatibility, 1995. International Conference
6-8 Dec. 1995 Page(s):224 - 226
Digital Object Identifier 10.1109/ICEMIC.1995.501586
[AbstractPlus](#) | Full Text: [PDF](#)(180 KB) IEEE CNF

- ☐ **8. A bound involving n-dimensional instantaneous frequency**
Bovik, A.C.;
Circuits and Systems, IEEE Transactions on
Volume 38, Issue 11, Nov. 1991 Page(s):1389 - 1390
Digital Object Identifier 10.1109/31.99171
[AbstractPlus](#) | Full Text: [PDF](#)(148 KB) IEEE JNL

- ☐ **9. Estimation of the autocorrelation function of complex Gaussian stationary
amplitude clipped signals**
Jacovitti, G.; Neri, A.;
Information Theory, IEEE Transactions on
Volume 40, Issue 1, Jan. 1994 Page(s):239 - 245
Digital Object Identifier 10.1109/18.272490
[AbstractPlus](#) | Full Text: [PDF](#)(536 KB) IEEE JNL

- ☐ **10. Complex hybrid correlators: an extended analysis of their performance**
Giunta, G.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Si
IEEE Transactions on]
Volume 43, Issue 6, June 1995 Page(s):1531 - 1535
Digital Object Identifier 10.1109/78.388872
[AbstractPlus](#) | Full Text: [PDF](#)(324 KB) IEEE JNL

- ☐ **11. 2-D phase unwrapping and instantaneous frequency estimation**
Spagnolini, U.;
Geoscience and Remote Sensing, IEEE Transactions on
Volume 33, Issue 3, May 1995 Page(s):579 - 589
Digital Object Identifier 10.1109/36.387574
[AbstractPlus](#) | Full Text: [PDF](#)(1064 KB) IEEE JNL

- ☐ **12. Nonparametric estimation of instantaneous frequency**
Katkovnik, V.;
Information Theory, IEEE Transactions on
Volume 43, Issue 1, Jan. 1997 Page(s):183 - 189
Digital Object Identifier 10.1109/18.567676
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(584 KB) IEEE JNL

- ☐ **13. Minimax lower bound for time-varying frequency estimation of harmonic**
Nazin, A.; Katkovnik, V.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Si
IEEE Transactions on]
Volume 46, Issue 12, Dec. 1998 Page(s):3235 - 3245
Digital Object Identifier 10.1109/78.735299

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(336 KB) IEEE JNL

- ☐ **14. Discrete-time local polynomial approximation of the instantaneous frequency**
Katkovnik, V.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing], IEEE Transactions on
Volume 46, Issue 10, Oct. 1998 Page(s):2626 - 2637
Digital Object Identifier 10.1109/78.720366
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(604 KB) IEEE JNL

- ☐ **15. Electric machinery parameters and torques by current and energy perturbation field computations. I. Theory and formulation**
Demerdash, N.A.; Nehl, T.W.;
Energy Conversion, IEEE Transactions on
Volume 14, Issue 4, Dec. 1999 Page(s):1507 - 1513
Digital Object Identifier 10.1109/60.815098
[AbstractPlus](#) | Full Text: [PDF](#)(424 KB) IEEE JNL

- ☐ **16. Complex vector model of the squirrel-cage induction machine including rotor bar currents**
Munoz, A.R.; Lipo, T.A.;
Industry Applications, IEEE Transactions on
Volume 35, Issue 6, Nov.-Dec. 1999 Page(s):1332 - 1340
Digital Object Identifier 10.1109/28.806047
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(356 KB) IEEE JNL

- ☐ **17. New techniques for commercial bread dough mixing**
Fowler, E.R.;
Instrumentation & Measurement Magazine, IEEE
Volume 3, Issue 1, March 2000 Page(s):21 - 25
Digital Object Identifier 10.1109/5289.823819
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(388 KB) IEEE JNL

- ☐ **18. Time-domain Green's function for an infinite sequentially excited periodic dipoles**
Felsen, L.B.; Capolino, F.;
Antennas and Propagation, IEEE Transactions on
Volume 48, Issue 6, June 2000 Page(s):921 - 931
Digital Object Identifier 10.1109/8.865225
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(356 KB) IEEE JNL

- ☐ **19. Theoretical analysis and performance of OFDM signals in nonlinear AWC**
Banelli, P.; Cacopardi, S.;
Communications, IEEE Transactions on
Volume 48, Issue 3, March 2000 Page(s):430 - 441
Digital Object Identifier 10.1109/26.837046
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(364 KB) IEEE JNL

- ☐ **20. Instantaneous parameter estimation in cardiovascular time series by harmonic frequency analysis**
Monti, A.; Medigue, C.; Mangin, L.;
Biomedical Engineering, IEEE Transactions on
Volume 49, Issue 12, Part 2, Dec. 2002 Page(s):1547 - 1556
Digital Object Identifier 10.1109/TBME.2002.805478
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(847 KB) IEEE JNL

- ☐ **21. Waves and complex power in transmission lines**
Leva, S.; Paolo Morando, A.;

Power Delivery, IEEE Transactions on
Volume 18, Issue 4, Oct. 2003 Page(s):1320 - 1327
Digital Object Identifier 10.1109/TPWRD.2003.817746

[AbstractPlus](#) | [References](#) | Full Text: [PDF\(729 KB\)](#) IEEE JNL

- ☐ **22. Numerical comparison of techniques for estimating Doppler velocity time coherent sea surface scattering measurements**
Allan, N.; Trizna, D.B.; McLaughlin, D.J.;
Radar, Sonar and Navigation, IEE Proceedings -
Volume 145, Issue 6, Dec. 1998 Page(s):367 - 373
[AbstractPlus](#) | Full Text: [PDF\(544 KB\)](#) IEE JNL
- ☐ **23. Wideband RF beamforming: the Rotman lens vs. photonic beamforming**
Rotman, R.; Rotman, S.; Rotman, W.; Raz, O.; Tur, M.;
Antennas and Propagation Society International Symposium, 2005 IEEE
Volume 2B, 3-8 July 2005 Page(s):23 - 26 vol. 2B
[AbstractPlus](#) | Full Text: [PDF\(712 KB\)](#) IEEE CNF
- ☐ **24. A new method for real time computation of power quality indices based on space phasors**
Milanese, D.L.; Ciric, R.M.;
Universities Power Engineering Conference, 2004. UPEC 2004. 39th International
Volume 2, 6-8 Sept. 2004 Page(s):924 - 928 vol. 1
[AbstractPlus](#) | Full Text: [PDF\(242 KB\)](#) IEEE CNF
- ☐ **25. A new envelope predistortion linearization architecture for handset power**
Wangmyong Woo; Kenney, J.S.;
Radio and Wireless Conference, 2004 IEEE
19-22 Sept. 2004 Page(s):175 - 178
[AbstractPlus](#) | Full Text: [PDF\(569 KB\)](#) IEEE CNF

View: 1-25 | 26-

[Help](#) [Contact Us](#) [Privacy & :](#)

© Copyright 2005 IEEE -

Indexed by
 Inspec

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31	"5001724"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 10:36
L2	11	"5001724" memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 10:37
L3	0	"5001724".pn. memory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 10:37
L4	0	"5001724".pn. memor\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 10:37
L5	2	"5001724".pn. rf	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 10:37
L6	1	"5001724".pn. complex	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 10:38
L7	0	"5001724".pn. restor\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 10:38
L8	1	"5001724".pn. instan\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 11:05

L9	2	"5001724".pn. rf	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 11:25
L10	2	"5001724".pn. ideal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/10 11:25
L11	485	(341/111,112,116,117).CCLS.	USPAT	OR	OFF	2006/01/10 12:14
S1	167	instantaneous\$ NEAR2 phase NEAR2 (measure or measuring)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/06 12:25
S2	3	instantaneous\$ NEAR2 phase NEAR2 (measure or measuring)complex	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/01/06 12:29
S3	3	instantaneous\$ NEAR2 phase NEAR2 (measure or measuring)complex	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/01/06 12:30
S4	7	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)q	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/01/06 12:31
S5	3	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)complex	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/01/06 12:32
S6	70	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)complex	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/01/06 13:07
S7	47	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)complex	USPAT	AND	ON	2006/01/06 13:08

S8	8	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)complex and phase.ti.	USPAT	AND	ON	2006/01/06 13:14
S9	47	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)complex	USPAT	AND	ON	2006/01/06 13:17
S10	4	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)quadrature	USPAT	WITH	ON	2006/01/06 13:18
S11	7	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)quadrature	USPAT	SAME	ON	2006/01/06 13:26
S12	4	instantaneous\$ NEAR3 phase NEAR3 (measure or measuring)quadrature frequency	USPAT	SAME	ON	2006/01/06 13:31
S13	17	instantaneous\$ NEAR3 phase frequency NEAR2 instantaneous\$ quadrature	USPAT	WITH	ON	2006/01/06 13:46
S14	1271	(370/485,486,487,527,528,529,493, 494,495).CCLS.	USPAT	OR	OFF	2006/01/10 12:13
S15	2115	(375/267,278,299,346,347).CCLS.	USPAT	OR	OFF	2006/01/10 10:36